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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,023	02/03/2004	Jason P. Gill	BUR920030118US1	2022

26679 7590 01/27/2006

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EXAMINER

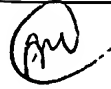
QUINTO, KEVIN V

ART UNIT PAPER NUMBER

2826

DATE MAILED: 01/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/708,023	Applicant(s) GILL ET AL. 	
	Examiner Kevin Quinto	Art Unit 2826	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 3-14, 17-20, 23-34 and 37-64 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 4-14, 17-20, 24-34, 37-40, 45-52 and 57-64 is/are allowed.
- 6) ☒ Claim(s) 3 and 23 is/are rejected.
- 7) ☒ Claim(s) 41-44 and 53-56 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed October 21, 2005 and November 3, 2005 have been fully considered but they are not persuasive. The examiner notes that the applicant has amended claims 3 and 23 to include a limitation similar to that of claim 41, in particular "the thin resistive film" portion. In the response filed on October 21, 2005, p. 21-22, the section under "Allowable Subject Matter," it appears that the applicant understands the position of the examiner that *the entire text of claim 41 if included in claim 3 would render it allowable* and not solely the "thin film" portion of claim 41. Amended claims 3 and 23 are not allowable since no exact thickness or tolerance is described which determines what the applicant considers to be thin.
2. The examiner notes the changes made to claims 4, 39, and 40 and thus hereby withdraws the objection made to them in the previous Office action.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 3 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Yang et al. (USPN 6,130,462).

5. In reference to claims 3 and 23, Yang et al. (USPN 6,130,462, hereinafter referred to as the "Yang" reference) discloses a similar device and process. Figure 12A of Yang illustrates a static random access memory device having a contact stud (220) with an integral resistor (195). A substrate (106A) is provided having at least one contact area. An insulating layer (145) is formed over the substrate (106A) which is overlying and in contact with the contact area. There is a contact hole formed in the insulating layer (145) which exposes the contact area. A contact stud (220) is disposed in the contact hole. The contact stud (220) has an upper surface and a lower surface. The lower surface is in circuit connection with the contact area. A thin integral resistive material (195) is disposed within the contact hole on at least an upper surface or a lower surface of the contact stud (220) so that the thin resistive material and the contact stud form a local resistor structure. The thin resistive material layer (195) is located in a cross coupling between an M1 metal cross coupling node and a polysilicon gate at a contact-to-M1 interface or a contact-to-polysilicon gate interface. The thin resistive material has a width no greater than the width of the contact hole.

Allowable Subject Matter

6. Claims 4-14, 17-20, 24-34, 37-40, 45-52, and 57-64 are allowed.
7. Claims 41-44 and 53-56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. The following is a statement of reasons for the indication of allowable subject matter: the examiner is unaware of any prior art which suggests a bipolar transistor which has a resistive material that is a thin film located on a recessed contact stud which is in series with a base, collector, or emitter of the device.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quinto whose telephone number is (571) 272-1920. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KVQ

A handwritten signature in black ink, consisting of a stylized 'N' followed by a vertical line.

NATHAN J. FLYNN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER